AN ULTRA-VIOLET RADIATION CURABLE INK COMPOSITION AND A PROCESS FOR ITS APPLICATION ON GLASS SUBSTRATES.

ABSTRACT

An ultraviolet radiation curable organic ink composition, comprising 80% to 95% by weight of an epoxy-polyurethane-based ink; 0.5% to 8% by weight of an additive including a mixture of polyethylenic waxes and polythetrafluoroethylenic waxes; 1% to 8% by weight of a blocked aliphatic polyisocyanate catalyst; and an adhesion promoter primer including 0.15% to 3% by weight of a silane, which can be directly included in the ultraviolet radiation curable organic ink composition or independently applied to a substrate, in order that the blocked aliphatic polyisocyanate catalyst promote a polymerization reaction and a crosslinking reaction between the epoxy-polyurethane-based ink and the adhesion promoter, when heated to 160 to 200°C, forming an interpenetration network.